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APPLICATION NO.		FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/074,449	49 02/13/2002		Edward T. LeBreton	32285	8968	
116	7590	10/12/2006		EXAM	EXAMINER	
PEARNE &		· • - ·	STAICOVIC	STAICOVICI, STEFAN		
SUITE 1200		KEEI	ART UNIT	PAPER NUMBER		
CLEVELAN	ND, OH	44114-3108	1732			
				DATE MAILED: 10/12/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
	10/074,449	LEBRETON ET AL.	
Office Action Summary	Examiner	Art Unit	
	Stefan Staicovici	1732	
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address	
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).	
Status			
1) ☐ Responsive to communication(s) filed on 20 Ju 2a) ☐ This action is FINAL. 2b) ☐ This 3) ☐ Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro		
Disposition of Claims	·		
4)	vn from consideration.		
Application Papers			
9) The specification is objected to by the Examiner 10) The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the of Replacement drawing sheet(s) including the correction of the original than the correction of the correct	epted or b) objected to by the Edrawing(s) be held in abeyance. See on is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list of	s have been received. s have been received in Application ity documents have been received (PCT Rule 17.2(a)).	on No ed in this National Stage	
Attachment(s)			
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ite	

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DETAILED ACTION

Response to Amendment

1. Applicants' amendment filed July 20, 2006 has been entered. Claims 1-20, 24-32, 35-42 and 44-45 are pending in the instant application.

Priority

2. Applicant's claim for domestic priority under 35 U.S.C. 119(e) is acknowledged. However, the provisional application upon which priority is claimed fails to provide adequate support under 35 U.S.C. 112. Specifically, the limitation of a hollow preform comprised of a "plurality of discrete reinforcing fibers intimately intermixed with a plurality of discrete thermoplastic fibers" does not appear to be supported by provisional application 60/271,289 from which the instant application claim priority. As such, the effective filing date for the instant application is considered February 13, 2002.

Claim Rejections - 35 USC § 112

- 3. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 4. Claims 36 and 37 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Claim 36 recites the limitation "the thermoplastic material" in line 24.

There is insufficient antecedent basis for this limitation in the claim. Claim 37 is rejected as a dependent claim.

Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claims 35-36 and 44-45 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wiltshire (US Patent No. 4,101,254) in view of Evans (US 2003/0054150 A1).

Wiltshire ('254) teaches the basic claimed process for making a hollow, fiber-reinforced composite article including, forming two end preforms and a central preform from glass fibers, assembling said preforms and positioning them in a cylindrical mold, inserting a flexible bag inside the performs, inflating the bag to compress the performs against the mold, impregnating the performs with resin, further compressing the performs to distribute the resin, curing the resin and removing the inflatable bag to form the hollow, fiber-reinforced composite article (see col. 1, lines 10-24).

Regarding claims 35-36 and 44-45, Wiltshire ('254) does not teach a thermoplastic resin. However, the use of a thermoplastic resin to form a fiber-reinforced thermoplastic product is well known as evidenced by Evans (US 2003/0054150 A1) who teaches providing a thermoplastic resin onto glass fibers to form a preform and then molding the preform under heat

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and pressure to distribute the molten thermoplastic material (see ¶¶ 9-10, 27, 31 and 43).

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Therefore, it would have been obvious for one of ordinary skill in the art to provide the

thermoplastic resin of Evans (US 2003/0054150 A1) to the performs in the process of Wiltshire

('254) in favor of the thermosetting resin because, Evans (US 2003/0054150 A1) specifically

teaches that such thermoplastic material is an ideal replacement for thermosetting resin because

it provides for reduced processing time, reduced porosity in the final product, hence providing

for an improved process and resulting molded product.

Allowable Subject Matter

7. Claims 1-20, 24-32 and 38-42 are allowed.

8. Claim 37 is objected to as being dependent upon a rejected base claim, but would be

allowable if rewritten in independent form including all of the limitations of the base claim and

any intervening claims.

Response to Arguments

9. Applicants' arguments filed July 20, 2006 have been considered but are most in view of

the new ground(s) of rejection.

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Conclusion

10. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Stefan Staicovici, Ph.D. whose telephone number is (571) 272-

1208. The examiner can normally be reached on Monday-Friday 9:30 AM to 6:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Christina Johnson, can be reached on (571) 272-1176. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

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system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Stefan Staicovici, PhD

Primary Examiner

12/2/08

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October 2, 2006